EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2024	M.TECH	IIT Kharagpur	9.09 / 10
2016	MECHANICAL ENGINEERING	COLLEGE OF ENGINEERING GUINDY ANNA UNIVERSITY	8.28 / 10
2012	HSC PUBLIC EXAM	BHARATHI HIGHER SECONDARY SCHOOL	97.58%
2010	SSLC PUBLIC EXAM	BHARATHI HIGHER SECONDARY SCHOOL	97%

INTERNSHIPS

ZF Technology Centre India (CVCS) | Product Innovation | Diagnoz.ai | ML Engineer Intern | May'23-Jul'23 | **Project:**Modeling of **Wheel Speed Sensor** voltage amplitude and time period signal for **predictive maintenance** of Loose Lug Nut | **Model Algorithms:** Linear regression, Regularized regression, Polynomial regression, Decision Tree, Random Forest and Neural Network | **Model Performance:** Reduced the Model RMSE by 52.86%,MAE by 54.89% &Improved R2 Score by 2.263% using Neural Network as compared to Linear regression.
•Non project: Worked on publishing Product Innovation Newsletter to enhance visibility of PI team across ZF.

PROJECTS

1.Drug Classification | Spring 2023 Machine Learning | Prof. Aritra Hazra, Dept. of CSE, IIT KGP
• Built a predictive model with an accuracy of 80% utilizing Decision Tree classifier for Drug Classification
2.Covid case prediction | Spring 2023 Machine Learning | Prof. Aritra Hazra, Dept. of CSE, IIT KGP
• Implemented the binary ANN classifier to classify Covid Cases with a test accuracy of 65%.
3.Instagram User Dynamics using K-Means and Single Linkage Divisive (Top-Down) Clustering Technique | Spring 2023 Machine Learning | Prof. Aritra Hazra, Dept. of CSE, IIT KGP
• Implemented the K-means clustering algorithm leveraging cosine similarity to measure data point similarity and evaluated optimal number of clusters as 3 with a Silhouette score of 0.679.
4.Optimizing CNN Performance Through Neural Architecture Search approach with LeNet-5 | Spring 2023 Deep Learning | Prof. Debdoot Sheet, Dept. of AI, IIT KGP
5.Exploratory data analysis (EDA) on the Dataset of Harry potter publishings (Self Project)
6.Predicting Climate Classes with Winters Model, ML and DL Models (MTech. Thesis)

COURSEWORK INFORMATION

Data Analytics | Machine Learning | Deep Learning Foundations and Application | Design Lab | Computational Methods for Earth System Science | Simulation Lab | Remote Sensing | Machine Learning and Deep Learning Specialization by Andrew Ng (Coursera) | German Language Course (A1)

SKILLS AND EXPERTISE

Languages/Tools: Python| QGIS| ArcGIS| Google Earth Pro **Libraries:**Numpy | Pandas| Matplotlib | Seaborn | Plotly | Scikit-Learn |Tensorflow | Keras | Pytorch.**Software:** Jupyter | Anaconda | MS Office | **Soft skills:**Team player|Diligent worker|Presentation skills| Cost working and negotiation skills|Problem solving skills|Self motivated

CERTIFICATIONS

•Completed **Data analytics in earth system science using Python** with **EXCELLENT** grade

WORK EXPERIENCES

Simpson and company limited|Project: SC108/SC213 Diesel engines|Customer : VST,TAFE and Cummins Tractors and Tillers | An astute,dynamic team spirited,competent and performance driven professional with **2.3 years (20.06.2016 to 23.10.2018) of experience** as **GET &Senior Engineer in Supplier Technical Assistance, Sourcing &New product Development** of Diesel Engine components

AWARDS AND ACHIEVEMENTS

• Recipient of the prestigious **DAAD KOSPIE Scholarship** for Master's thesis research on **Predicting Climate Classes using Winters Model, Machine learning and Deep learning Models** at Faculty of **Computer Science** in **TU Dresden Germany from September 2023 to March 2024**
•Got **third prize** from **TNSTC** for securing **1171/1200 (third rank in school)** in **HSC** Board Examination
•Got **100% in Mathematics** in **HSC** and **SSLC**

EXTRA CURRICULAR ACTIVITIES

•Participated in NSO camp for 10 days at College of Engineering Guindy (Anna University) during UG
•Got selected for the State Government scholarship programme by scoring top rank in National talent exam in 2009